

**SECTION  
J**

**SOLID WASTE MANAGEMENT UNITS (SWMUs), HAZARDOUS  
WASTE MANAGEMENT UNITS (HWMUs), AND AREAS OF  
CONCERN (AOCs)**

~~Siemens Water Technologies Corp.~~ Siemens Industry, Inc.  
2523 Mutahar Street  
Parker, Arizona 85344

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## **SOLID WASTE MANAGEMENT UNITS, HAZARDOUS WASTE MANAGEMENT UNITS, AND AREAS OF CONCERN**

This section identifies each of the known solid waste management units (SWMUs), hazardous waste management units (HWMUs) and Areas of Concern (AOCs) at the facility and provides the information required by 270.14(d)(1) and (2). ~~The EPA has initiated a RCRA Facility Assessment (RFA), however as of the time of submittal of this Part B Permit Application, that assessment is on-going, and no results are available. Therefore, all information is provided based on facility knowledge of the past and current operations, and draft information received from EPA.~~

The following definitions are found in EPA regulations, guidance, and preambles to RCRA rulemaking notices.

- A **"Solid Waste Management Unit"** is "[a]ny discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released." [61 Fed. Reg. 19,432, 19,442-19,443 (May 1, 1996); accord EPA, Call Center Questions and Answers (Mar. 1, 2004)]. Examples of SWMUs include container storage areas, tanks, surface impoundment, waste piles, land treatment units, landfills, incinerators, underground injection wells and other physical, chemical and biological treatment units, stormwater retention ponds containing contaminated sediments, industrial sewers designed to collect wastes, wood preservative kickback areas.
- A **Hazardous Waste Management Unit** is a "contiguous area of land on or in which hazardous waste is placed, or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area." [40 C.F.R. § 260.10.] Examples of HWMUs include "a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system and a container storage area." [Id.]
- An **Area of Concern** is "any area of a facility under the control or ownership of an owner or operator where a release to the environment of hazardous wastes or hazardous constituents has occurred, is suspected to have occurred, or may occur, regardless of the frequency or duration." [63 Fed.

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Reg. 56710, 56715, n.1 (Oct. 22, 1998).] Areas of concern include areas that have experienced one-time spills of hazardous waste or hazardous constituents that have not been adequately cleaned up. [61 Fed. Reg. 19,432, 19,443 (May 1, 1996).]

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## J.1 Characterization of the Solid Waste Management Units

The facility has identified three operating areas and one past operating area on the facility containing ~~solid waste management units and one past operating area containing solid waste management units at the facility as required by 270.14(d)(1)~~ SWMUs, HWMUs, and AOCs. The areas containing ~~solid waste management~~ these units are:

- 1) The container storage area,
- 2) The storage tank and unloading area, consisting of tanks T-1, T-2, T-5, T-6, and T-18, and the Hopper H-1,
- 3) The carbon reactivation furnace and associated emission control equipment (RF-2), and
- 4) The inactive carbon reactivation furnace and associated emission control equipment (RF-1) as well as T-8.

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Within these areas, a list of SWMUs, HWMUs, and AOCs has been compiled for inclusion with this Part B Permit Application. Tables J-1, J-2 and J-3 lists the identified SWMUs, HWMUs, and AOCs, respectively. The SWMU and HWMU tables –and provides the following information for each identified ~~SWMU unit. Following completion of the Facility Assessment, the following information pertaining to these solid waste management units will be assembled:~~

- 1) The designation of each type of unit (name, description);
- 2) The general dimensions and structural description of each unit;
- 3) The date each unit was first operated; and
- 4) Specification of all wastes that have been managed in each unit, to the extent available.

The location of each ~~solid waste management unit~~ SWMU, HWMU, and AOC is shown on a series of drawings designated as Figures J-1 through J-~~37~~.

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## **J.2 Releases**

Any leaks, drips, or spills from any of the solid waste management units identified in Section J-1, above, are routinely cleaned up as soon as practical and the area decontaminated to remove any hazardous wastes or hazardous waste constituents. The facility has experienced four reportable releases of hazardous wastes or hazardous waste constituents from the solid waste management units, as follows:

Nov 10, 1994 – Facility Lift Station Overflow – Reported to NRC, CRIT, LEPC – overflow caused by a power outage.

April 17, 1995 - Facility Lift Station Overflow – Reported to NRC, CRIT, LEPC – overflow caused by power outage.

February 15, 1996 - Facility discharge line was accidentally cut by Southwest Gas contractor relocating natural gas line - Reported to NRC, CRIT, LEPC.

September 26, 1998 – Spill of recycle water from a trailer outside the facility gate - Reported to NRC, CRIT, LEPC.

For each release, a complete investigation and report has been compiled and is kept at the facility. The following information, at a minimum, is recorded for any release from a solid waste management unit identified in Section J.1 above:

- 1) Date, type, quantity, and nature of any release;
- 2) Groundwater monitoring and other analytical data;
- 3) Physical evidence of stressed vegetation;
- 4) Historical evidence of any releases;
- 5) Any state, federal, or local enforcement action to address releases;
- 6) Any public citizen complaints that indicate a release; and
- 7) Any other information showing the migration of a release.

Because these spills have been cleaned up, the spill areas are not included as AOCs, in accordance with the definitions provided above.

TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
1	<u>Bermed containment in process area</u> <del>Spent carbon reactivation furnace RF-1 and Associated Equipment (Dewater-screw, Weigh Belt)</del>	<u>East of Warehouse</u> <del>South of RF-2</del>	<u>Approx 180' x 55'; concrete</u> <del>14'-2" H 9'-3" OD Four hearths</del>	<u>August 1992</u> <del>August 1992</del>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
2	<u>Sump by H-1</u> <del>Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater-Screw, Weigh Belt)</del>	<u>South of H-1</u> <del>East of warehouse</del>	<u>3'-4" square; concrete</u> <del>See Appendix X</del>	<u>July 1996</u> <del>July 1996</del>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
3	<u>Sump by storage tank, T-9</u> <del>Spent carbon unloading hopper H4</del>	<u>East of warehouse in between T-9 and RF-2</u> <del>North end of facility on containment</del>	<u>3'-4" square sump; Udrain 30' long x 16" wide; concrete</u> <del>5000 lb capacity; mild steel</del>	<u>August 1992 to present</u> <del>July 1996</del>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
4	<u>Recycled motive water storage tank, T-9</u> <del>Spent carbon unloading hopper H2</del>	<u>East of warehouse on containment</u> <del>Inside warehouse facing east wall</del>	<u>10,500 gal 316 series stainless steel</u> <del>500 lb capacity; mild steel</del>	<u>1996 to present</u> <del>August 1992</del>	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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**TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION**

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
5	<u>Rainwater and motive water storage tank, T-12</u> Spent carbon slurry and recycle water transfer system	<u>East of warehouse on containment</u> East of the warehouse on containment	25,080 gal Mild steel 4" pipes hopper to tank; 3" pipes T-tank to furnace feed tank; 300-series SS	<u>August 1992</u> Removed from service in 2002.	Spent activated carbon. See Part A Application for list of applicable waste codes	None
6	<u>Wastewater storage tank, T-11</u> System Spent carbon storage-warehouse	<u>East of the warehouse and south of RF - 2</u> Inside warehouse	10' Dia x 20' H; Approx 12,000 gal fiberglass Approx 80' x 80' concrete/metal	<u>August 1992 to present</u> August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
7	<u>Sump by cooling screw under Venturi scrubber tank</u> Spent carbon unloading area	<u>East of warehouse beside RF-2</u> North area of facility	3'-4" square; concrete Approx 44' x 152' concrete	<u>July 1996 to present</u> August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
8	<u>RF-2 scrubber water equalization tank, T-19</u> Spent carbon slurry storage tank, T-1, T-2, T-5, T-6 and Ancillary Equipment	<u>Under RF-2 Structure</u> East of warehouse on containment	Approx. 1000 gal Fiberglass See Appendix IX	<u>July 1996 to present</u> August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
9	<u>Hazardous waste debris bin T-8 and</u> Ancillary Equipment	<u>North of warehouse on containment by H-1</u> RF-1 Structure	20 - 40 cubic yards Mild steel 905 gal 300-series SS	<u>August 1992 to present</u> August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
10	<u>Spent carbon storage warehouse grated trenches and sump</u> <u>T-18 and Ancillary Equipment</u>	<u>Warehouse in containment area</u> <u>RF-2 structure</u>	<u>Trench 3 ft. 4 in square sump</u> <u>U-drain 50 ft long, 16 in wide; cross drain sections 40 ft long 16 in wide</u> <u>Concrete 5000-gal 300-series SS</u>	<u>1992 to present</u> <u>July 1996</u>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
11	<u>Hopper containment pad</u> <u>Recycled motive water storage tank, T-9</u>	<u>Outside H-1 structure</u> <u>East of warehouse on containment</u>	<u>Approx 60' x 44'; concrete</u> <u>10,500-gal 300-series SS</u>	<u>July 1996</u> <u>August 1992</u>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
12	<u>WWTP</u> <u>Wastewater storage tank, T-11 System</u>	<u>Inside warehouse</u> <u>East of the warehouse and south of RF-2</u>	<u>Fiberglass, mild steel modular water treatment system.</u> <u>Separate containment, 10' Dia x 20' H; Approx 12,000 gal fiberglass</u>	<u>October 2003 to present</u> <u>August 1992</u>	Spent activated carbon. See Part A Application for list of applicable waste codes	None
13	<u>Wastewater lift station and piping system</u> <u>(old) RF-2 scrubber water equalization tank, T-19</u>	<u>At the end of access road to plant. Old piping from Tank T-11 to the Lift Station</u> <u>Under RF-2 Structure</u>	<u>Approx. height 15 ft; outside diameter 5 ft Lift Station: mild steel/concrete/fiberglass</u> <u>Old piping system PVC, Approx 1000-gal fiberglass</u>	<u>1992 to 1996</u> <u>July 1996</u>	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
14	<del>Spent carbon unloading/transfer area containment pad</del> Hazardous waste debris bin	<del>North area of facility</del> North of warehouse on containment by H-4	<del>Approx. 44 ft by 80 ft</del> Approx 20 cu yd, mild steel	<del>August 1992 to present</del> August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
15	Spent carbon storage warehouse-grated trenches and sump	Warehouse in containment area	Trench 3'-4" square; U-drain 50' L x 16" W; Cross drains 40' x 16"; concrete	August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
16	Bermed containment in process area	East of Warehouse	Approx 180' x 55'; concrete	August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
17	Sump by H-1	South of H-1	3'-4" square; concrete	July 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
18	Sump by storage tank, T-9	East of warehouse in between T-9 and RF-2	3'-4" square; U-drain 30' x 16"; concrete	August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None

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**TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION**

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
19	Sump-by-cooling-screw under-Venturi-scrubber tank	East-of warehouse-beside RF-2	3'-4" square; concrete	July-1996	Spent-activated carbon.—See Part-A Application-for list-of applicable waste-codes	None
20	Wastewater conveyance-piping-to wastewater-treatment tank	East-of RF-2 structure	3" PVC-piping	August-1992	Spent-activated carbon.—See Part-A Application-for list-of applicable waste-codes	None
21	Wastewater lift station and-piping-system (old)	At the-end-of access-road-to plant.—Old-piping from-Tank-T-11-to the-Lift-Station	Approx-15' H x 5" Dia; mild-steel, SS, and fiberglass.—Ductile-iron Piping	August-1992	Spent-activated carbon.—See Part-A Application-for list-of applicable waste-codes	See Section J.2
22	New-Facility-Discharge Piping-System	New-piping bypasses-Lift Station-to POTW	3" PVC	February-1996	Spent-activated carbon.—See Part-A Application-for list-of applicable waste-codes	See Section J.2
23	Carbon-adsorber—PV1000	North-of Containment-Pad for-Storage-Tanks	1000-lb carbon capacity; mild-steel. New-canisters substituted.	August-1992	Spent-activated carbon.—See Part-A Application-for list-of applicable waste-codes	None

**TABLE J-1. SOLID WASTE MANAGEMENT UNIT IDENTIFICATION**

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
24	Hopper-containment pad	Outside H-1 structure	Approx 60' x 44'; concrete	July 1996	Spent-activated carbon.—See Part A Application for list of applicable waste codes	None
25	WWTP	Inside warehouse	Fiberglass, mild-steel modular water treatment system. Separate containment.	October 2003	Spent-activated carbon.—See Part A Application for list of applicable waste codes	None

**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>

**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<u>1</u>	<u>Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw)</u>	<u>South of RF-2</u>	<u>Furnace shell – carbon steel; internal firebrick lining and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation</u>	<u>August 1992; Shut down in 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
2	Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt)	East of warehouse	Furnace shell – carbon steel; internally lined with firebrick and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; continuously seal welded internally to assure an air-tight assembly. Dewatering screw length 17 ft; diameter 8 in.	July 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
3	3 RF-1 Air pollution control equipment					

**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
	<u>Afterburner</u>	<u>RF-1 structure</u>	<u>Refractory lined steel</u>	<u>1992 to 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Venturi scrubber</u>	<u>RF-1 structure</u>	<u>Hastelloy C</u>	<u>1992 to 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Packed bed scrubber</u>	<u>RF-1 structure</u>	<u>Fiberglass</u>	<u>1992 to 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Emissions stack</u>	<u>RF-1 structure</u>	<u>Mild steel</u>	<u>1992 to 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
4	RF-2 Air pollution control equipment					
	<u>Afterburner</u>	<u>RF-2 structure</u>	<u>Refractory lined steel cylinder chamber</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
	<u>Venturi scrubber</u>	<u>RF-2 structure</u>	<u>Hastelloy C</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Packed bed scrubber</u>	<u>RF-2 structure</u>	<u>Fiberglass</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Wet electrostatic precipitator</u>	<u>RF-2 structure</u>	<u>Fiberglass/AL6XN</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Induced draft fan</u>	<u>RF-2 structure</u>	<u>300-series SS</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
	<u>Emissions stack</u>	<u>RF-2 structure</u>	<u>Fiberglass surrounded by a mild steel shell</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<u>5</u>	<u>Spent carbon unloading hopper H-1</u>	<u>North end of facility on containment</u>	<u>5000 lb capacity; mild steel</u>	<u>1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>6</u>	<u>Spent carbon unloading hopper H-2</u>	<u>Inside warehouse facing east wall</u>	<u>500 lb capacity; mild steel</u>	<u>August 1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>7</u>	<u>Hopper air pollution control equipment piping and baghouse</u>	<u>North end of facility on containment</u>	<u>Ducting, baghouse and fan are mild steel</u>	<u>1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>8</u>	<u>Spent carbon slurry and recycle water transfer system</u>	<u>Inside warehouse on containment</u>	<u>4" pipes hopper to tank; 3" pipes T-tank to furnace feed tank; 300-series SS</u>	<u>1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>9</u>	<u>Spent carbon storage warehouse</u>	<u>Inside warehouse</u>	<u>80 ft by 80 ft concrete/ metal</u>	<u>1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<u>10</u>	<u>Spent carbon slurry storage tank, T-1</u>	<u>East of warehouse within containment</u>	<u>8319 gal design capacity</u>	<u>Used tank (1956); 1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>11</u>	<u>Spent carbon slurry storage tank, T-2</u>	<u>East of warehouse within containment</u>	<u>8319 gal design capacity</u>	<u>Used tank (1956); 1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>12</u>	<u>Spent carbon slurry storage tank, T-5</u>	<u>East of warehouse within containment</u>	<u>8319 gal design capacity</u>	<u>Used tank (1956); 1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>13</u>	<u>Spent carbon slurry storage tank, T-6</u>	<u>East of warehouse within containment</u>	<u>8319 gal design capacity</u>	<u>Used tank (1956); 1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>14</u>	<u>Furnace Feed System Tank T-8 and Ancillary Equipment</u>	<u>RF-1 Structure</u>	<u>905 gal 300 series SS</u>	<u>August 1992 to 1996</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<u>15</u>	<u>T-18 and Ancillary Equipment</u>	<u>RF-2 structure</u>	<u>6500 gal 300-series SS</u>	<u>July 1996 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>16</u>	<u>Wastewater conveyance piping to wastewater treatment tank</u>	<u>East of RF-2 structure</u>	<u>3" PVC piping</u>	<u>August 1992</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>17</u>	<u>Spent carbon storage warehouse barrel washer</u>	<u>Next to H-2 in warehouse</u>	<u>2 ft by 3 ft 300 series stainless steel</u>	<u>1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>18</u>	<u>Carbon adsorber - PV1000</u>	<u>North of Containment Pad for Storage Tanks</u>	<u>1000 lb carbon capacity; mild steel.</u>	<u>August 1992</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>
<u>19</u>	<u>Carbon adsorber WS-1</u>	<u>Beside spent carbon storage tank</u>	<u>2 x 2000 lb carbon capacity. Mild steel</u>	<u>1992 to present</u>	<u>Spent activated carbon. See Part A Application for list of applicable waste codes</u>	<u>None</u>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<a href="#">20</a>	<a href="#">Carbon adsorber WS-2</a>	<a href="#">Beside H-1</a>	<a href="#">5000 lb carbon capacity Fiberglass</a>	<a href="#">1992 to present</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">None</a>
<a href="#">21</a>	<a href="#">Carbon adsorber WS-3</a>	<a href="#">Beside RF-2</a>	<a href="#">1000 lb carbon capacity Mild steel</a>	<a href="#">1996 to present</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">See Section J.2</a>
<a href="#">22</a>	<a href="#">Slurry transfer inclined plate settler tank</a>	<a href="#">Adjacent to the venturi scrubber</a>	<a href="#">Mild steel</a>	<a href="#">1992 to 1994</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">See Section J.2</a>
<a href="#">23</a>	<a href="#">Scrubber recycle tank T-17</a>	<a href="#">Beside RF-1</a>	<a href="#">Mild steel</a>	<a href="#">1992 to 1996</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">None</a>
<a href="#">24</a>	<a href="#">Filter press</a>	<a href="#">Next to scrubber system for RF-1</a>	<a href="#">Mild steel with polypropylene plates</a>	<a href="#">1992 to 1994</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">None</a>

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**TABLE J-2. HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION**

<u>No.</u>	<u>HWMU Type/Designation</u>	<u>Location</u>	<u>General Dimensions and Structural Description</u>	<u>Date Unit was First Operated</u>	<u>Identification of Wastes Managed in Unit</u>	<u>Releases from Unit</u>
<a href="#">25</a>	<a href="#">New Facility Discharge Piping System</a>	<a href="#">New piping bypasses Lift Station to POTW</a>	<a href="#">6" PVC</a>	<a href="#">February 1996</a>	<a href="#">Spent activated carbon. See Part A Application for list of applicable waste codes</a>	<a href="#">None</a>

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**TABLE J-3. AREA OF CONCERN IDENTIFICATION**

<u>No.</u>	<u>AOC Type/Designation/Location</u>	<u>Management Requirements at Closure</u>
<a href="#">1</a>	<a href="#">Spent carbon unloading and transfer area.</a>	<a href="#">Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 5 &amp; 7.</a>
<a href="#">2</a>	<a href="#">Tank area concrete containment pad</a>	<a href="#">Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 3.</a>
<a href="#">3</a>	<a href="#">Receiving area/pad</a>	<a href="#">Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 8.</a>
<a href="#">4</a>	<a href="#">Hopper H-1 loading/unloading area</a>	<a href="#">Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 4 &amp; 5.</a>
<a href="#">5</a>	<a href="#">Hopper H-2 loading/unloading area</a>	<a href="#">Sampling. See Closure Plan Container Area Sample Locations 1 &amp; 2.</a>
<a href="#">6</a>	<a href="#">Spent carbon storage warehouse</a>	<a href="#">Sampling. See Closure Plan Container Area Sample Locations 1, 2, &amp; 3.</a>
<a href="#">7</a>	<a href="#">Furnace feed systems</a>	<a href="#">Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1 &amp; 2</a>
<a href="#">8</a>	<a href="#">Recycled motive water tank T-9</a>	<a href="#">Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.</a>

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**TABLE J-3. AREA OF CONCERN IDENTIFICATION**

<b>No.</b>	<b>AOC Type/Designation/Location</b>	<b>Management Requirements at Closure</b>
<u>9</u>	<u>Rainwater, dewatering screw, and motive water tank T-12</u>	<u>Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 2.</u>
<u>10</u>	<u>Spent carbon storage warehouse barrel washer</u>	<u>Sampling. See Closure Plan Container Area Sample Locations 1, 2, &amp; 3.</u>
<u>11</u>	<u>Bermed containment area in process area</u>	<u>Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1, 2, &amp; 3.</u>
<u>12</u>	<u>Sump by unloading hopper H-1</u>	<u>Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 4.</u>
<u>13</u>	<u>Sump by tank T-9</u>	<u>Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.</u>
<u>14</u>	<u>Spent carbon storage tanks and carbon adsorbers</u>	<u>Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 1, 2, &amp; 3.</u>

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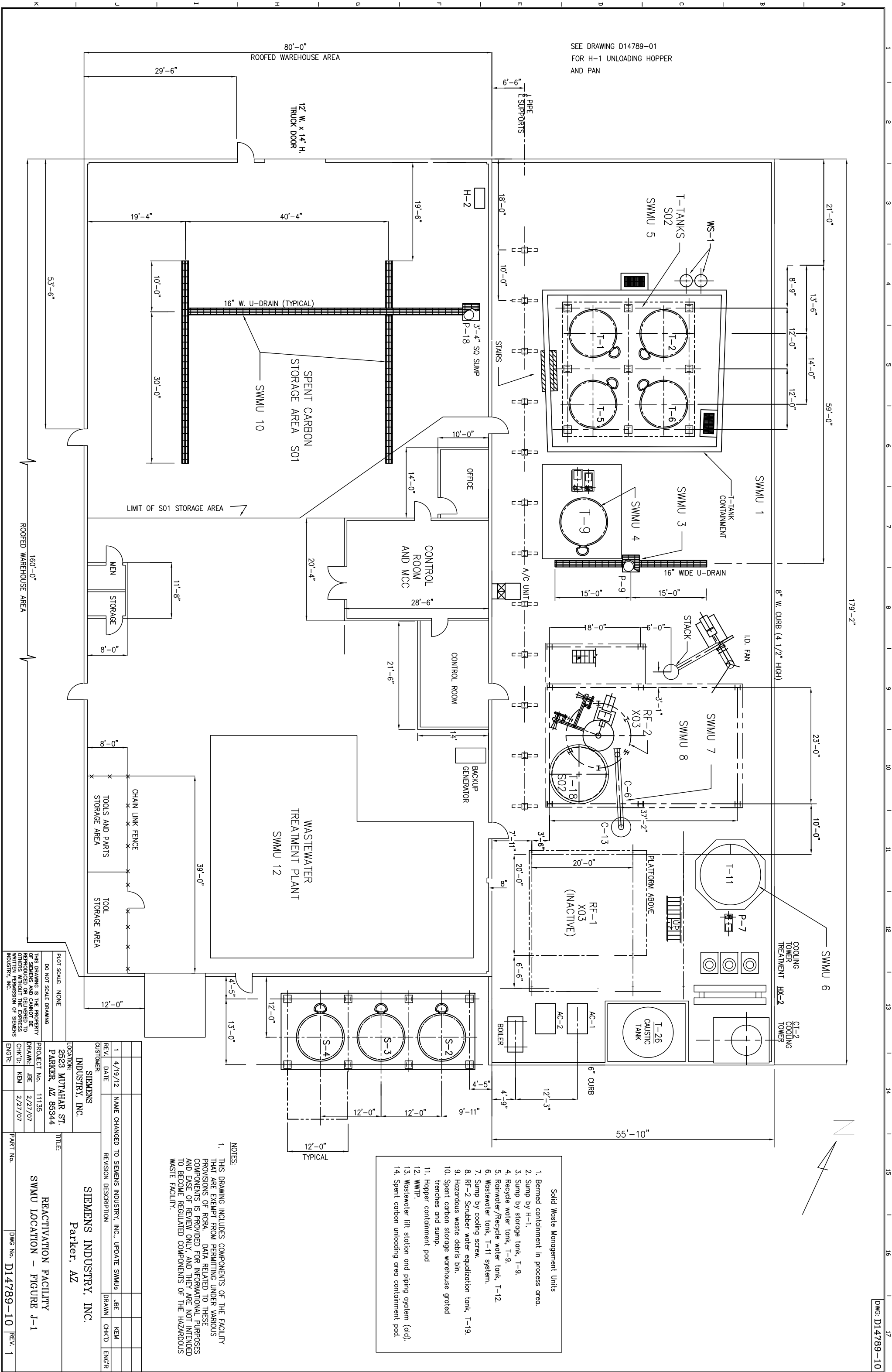
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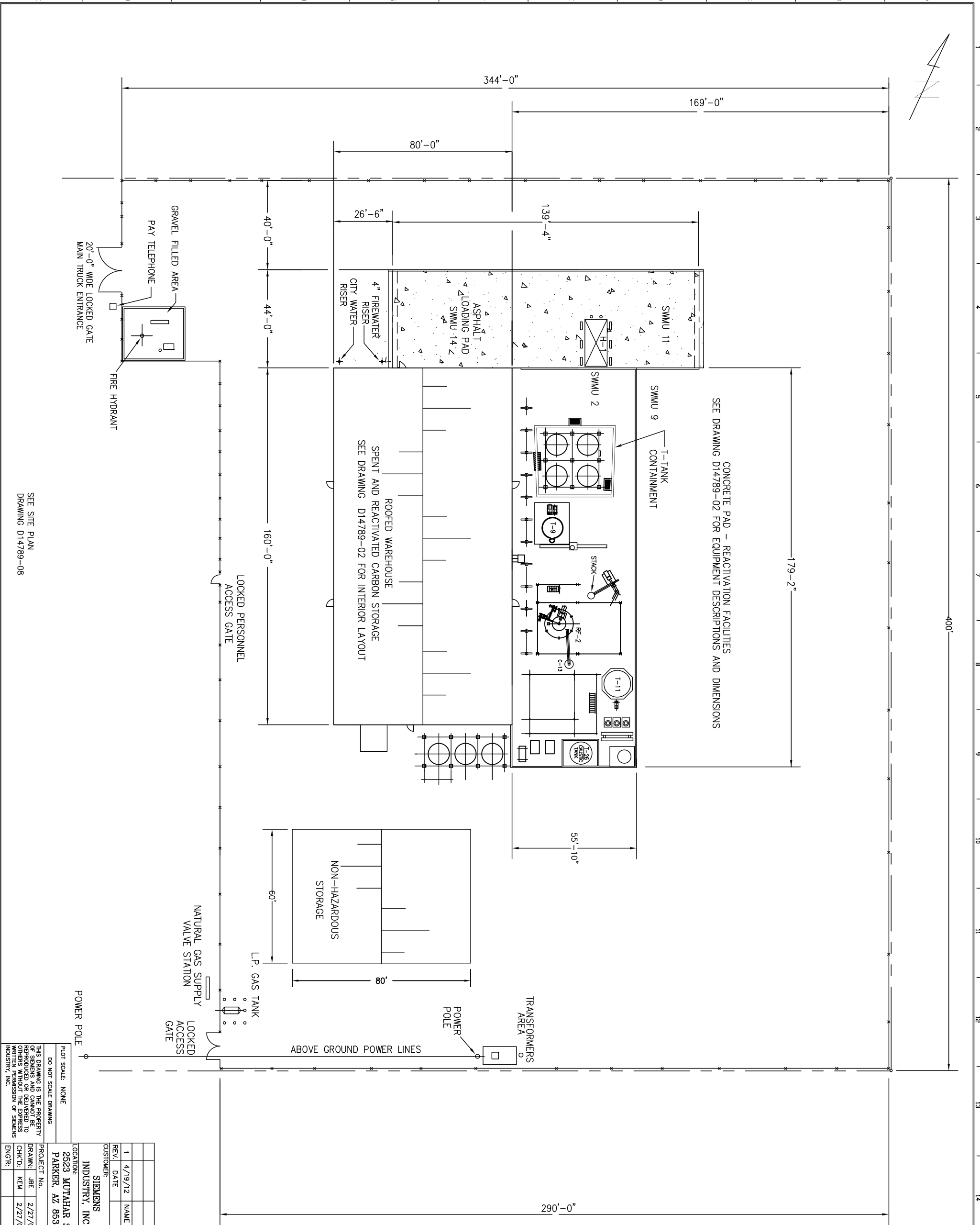
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- Solid Waste Management Units**
1. Berned containment in process area.
  2. Sump by H-1.
  3. Sump by storage tank, T-9.
  4. Recycle water tank, T-9.
  5. Rainwater/Recycle water tank, T-12.
  6. Wastewater tank, T-11 system.
  7. Sump by cooling screw.
  8. RF-2 Scrubber water equalization tank, T-19.
  9. Hazardous waste debris bin.
  10. Spent carbon storage warehouse grated trenches and sump.
  11. Hopper containment pad
  12. WWTP.
  13. Wastewater lift station and piping system (old).
  14. Spent carbon unloading area containment pad.

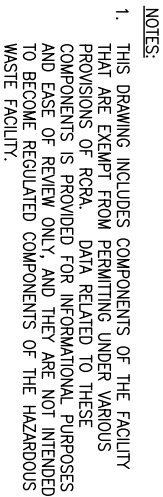
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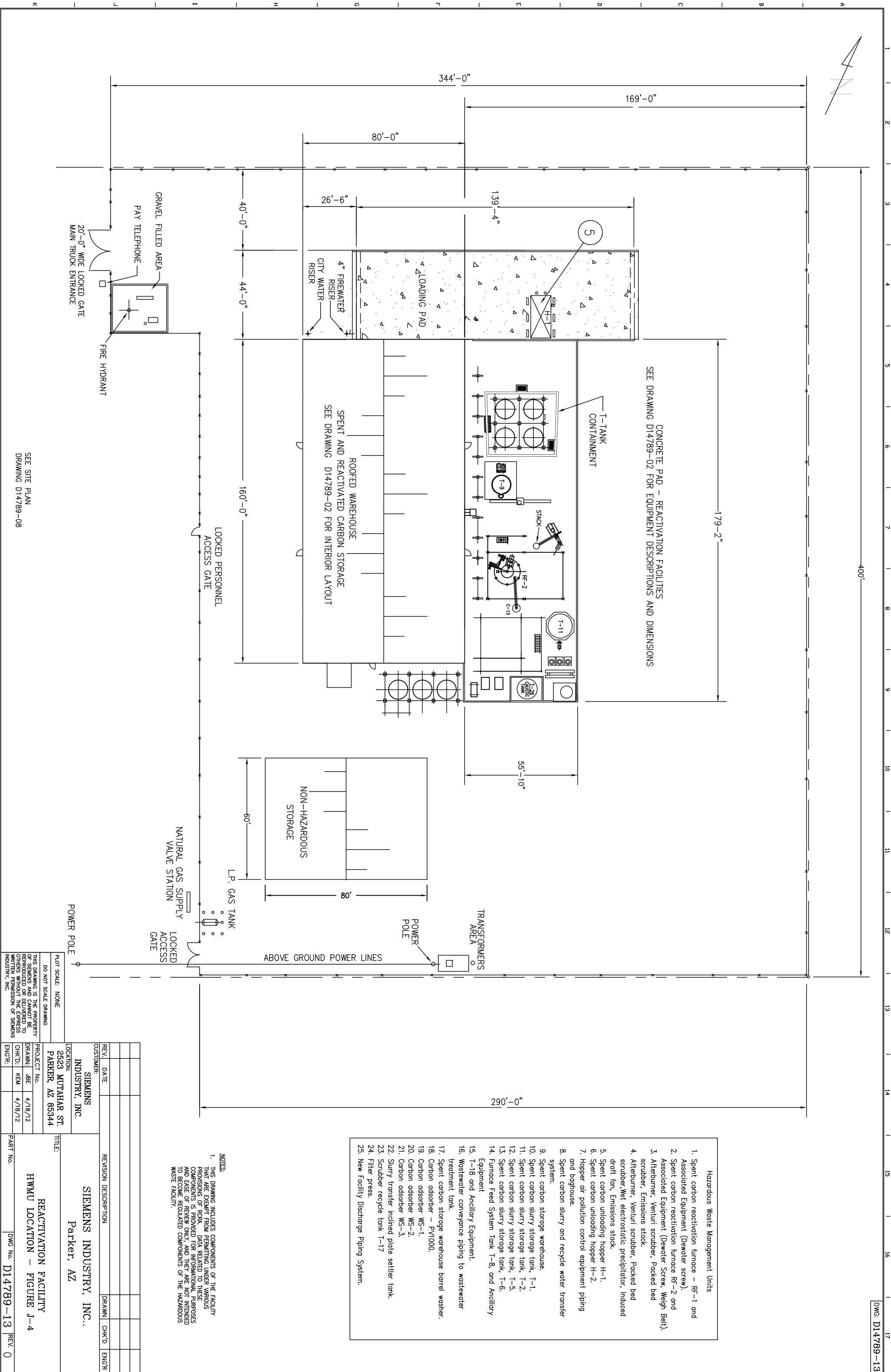
1	4/19/12	NAME CHANGED TO SIEMENS INDUSTRY, INC., UPDATE SWMUs				JBE	KEM		
REV.	DATE	REVISION DESCRIPTION				DRAWN	CHK'D	ENGR	
CUSTOMER:		SIEMENS INDUSTRY, INC..							
LOCATION:		2523 MUTAHAR ST. PARKER, AZ 85344							
PROJECT No.		TITLE:							
DRAWN: JBE		REACTIVATION FACILITY							
CHK'D: KEM		SWMU LOCATION – FIGURE J-2							
ENGR:		PART No.		DWG No.		D14789-11		REV. 1	

SEE SITE PLAN  
DRAWING D14789-08

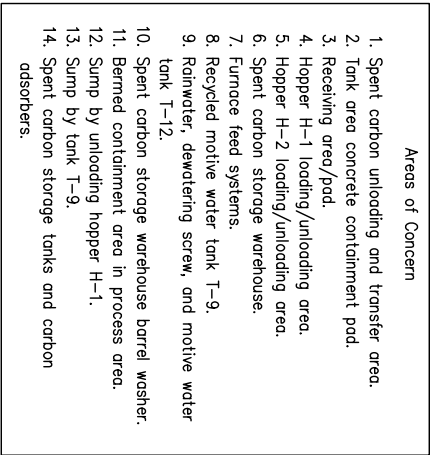




REV.	DATE	REVISION DESCRIPTION	DRAWN	CHK'D	ENGR
CUSTOMER:		SIEMENS INDUSTRY, INC.			
LOCATION:		2523 MUTHAR ST. PARKER, AZ 85344			
PROJECT No.		11135			
DRAWN:		JBE 4/19/12			
CHK'D:		KEM 4/19/12			
ENGR:					
TITLE:					
REACTIVATION FACILITY HMMU LOCATION - FIGURE J-3					
PART No.		DWG No.		REV.	
		D14789-12		0	





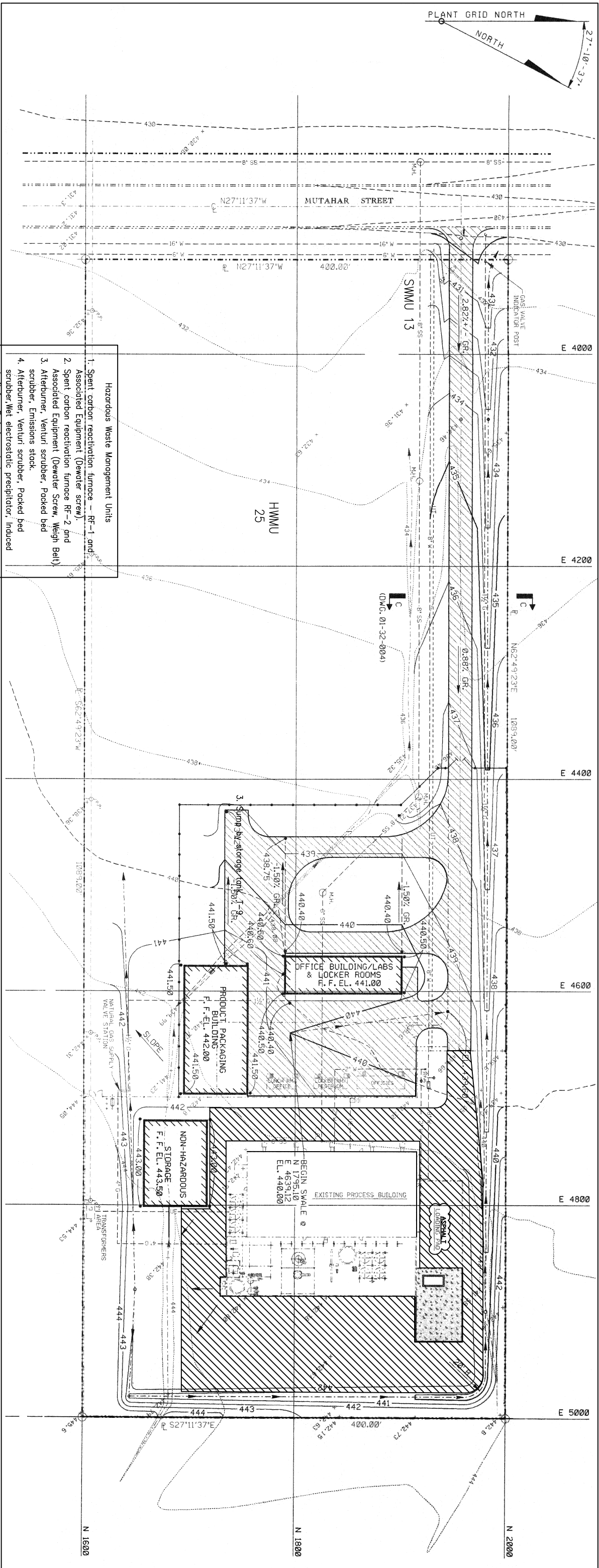


- ### Areas of Concern
1. Spent carbon unloading and transfer area.
  2. Tank area concrete containment pad.
  3. Receiving area/pod.
  4. Hopper H-1 loading/unloading area.
  5. Hopper H-2 loading/unloading area.
  6. Spent carbon storage warehouse.
  7. Furnace feed systems.
  8. Recycled motive water tank T-9.
  9. Rainwater, dewatering screw, and motive water tank T-12.
  10. Spent carbon storage warehouse barrel washer.
  11. Burned containment area in process area.
  12. Sump by unloading hopper H-1.
  13. Sump by tank T-9.
  14. Spent carbon storage tanks and carbon adsorbers.

**NOTES:**

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PRINT DATE: 4/18/12



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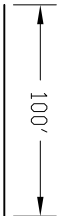
- Solid Waste Management Units**
1. Berned containment in process area.
  2. Sump by H-1.
  3. Sump by storage tank, T-9.
  4. Recycle water tank, T-9.
  5. Rainwater/Recycle water tank, T-12.
  6. Wastewater tank, T-11 system.
  7. Sump by cooling screw.
  8. RF-2 Scrubber water equalization tank, T-19.
  9. Hazardous waste debris bin.
  10. Spent carbon storage warehouse grated trenches and sump.
  11. Hopper containment pod
  12. WWTP.
  13. Wastewater lift station and piping system (old).
  14. Spent carbon unloading area containment pod.

- Hazardous Waste Management Units**
1. Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw).
  2. Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt)
  3. Afterburner, Venturi scrubber, Packed bed scrubber, Emissions stack.
  4. Afterburner, Venturi scrubber, Packed bed scrubber, Wet electrostatic precipitator, Induced draft fan, Emissions stack.
  5. Spent carbon unloading hopper H-1.
  6. Spent carbon unloading hopper H-2.
  7. Hopper air pollution control equipment piping and boghhouse.
  8. Spent carbon slurry and recycle water transfer system.
  9. Spent carbon storage warehouse.
  10. Spent carbon slurry storage tank, T-1.
  11. Spent carbon slurry storage tank, T-2.
  12. Spent carbon slurry storage tank, T-5.
  13. Spent carbon slurry storage tank, T-6.
  14. Furnace Feed System Tank T-8, and Ancillary Equipment
  15. T-18 and Ancillary Equipment.
  16. Wastewater conveyance piping to wastewater treatment tank.
  17. Spent carbon storage warehouse barrel washer.
  18. Carbon adsorber - PY1000.
  19. Carbon adsorber WS-1.
  20. Carbon adsorber WS-2.
  21. Carbon adsorber WS-3.
  22. Slurry transfer inclined plate settler tank.
  23. Scrubber recycle tank T-17
  24. Filter press.
  25. New Facility Discharge Piping System.

- Areas of Concern**
1. Spent carbon unloading and transfer area.
  2. Tank area concrete containment pod.
  3. Receiving area/pod.
  4. Hopper H-1 loading/unloading area.
  5. Hopper H-2 loading/unloading area.
  6. Spent carbon storage warehouse.
  7. Furnace feed systems.
  8. Recycled motive water tank T-9.
  9. Rainwater, dewatering screw, and motive water tank T-12.
  10. Spent carbon storage warehouse barrel washer.
  11. Berned containment area in process area.
  12. Sump by unloading hopper H-1.
  13. Sump by tank T-9.
  14. Spent carbon storage tanks and carbon adsorbers.

- NOTES:**
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  2. THIS DRAWING IS BASED ON PARKER FACILITY DRAWING 01-32-002P

NO.	DWN.	CK'D.	APP.	REVISIONS	DATE
<b>CBE CHAYOND-BARRY ENGINEERING CORP.</b>					
400 Route 518 • P.O. Box 205 • Bloomington, New Jersey 08504					
SIEMENS INDUSTRY, INC.					
PARKER, AZ					
REACTIVATION FACILITY					
SWMU, HWMU, AND AOC LOCATION					
FIGURE J-7					
DRAWN		CHECKED		APPROVED	
DATE		DATE		DATE	
JBE 4/18/12		KEM 4/18/12			
SCALE		DWG. NO.		REV.	
AS SHOWN		D14789-16		0	



SCALE